

**45KVA Power Distribution - 480V-208Y/120V - (6) 480V (20) 120V GFCI & (4) Twist Lock Receptacles**

Part #: [MGS-6X480-45KVA-4X208.50A-20X120.20A](#)

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function MM_openBrWindow(theURL,winName,features) { //v2.0 window.open(theURL,winName,features); }
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**Made in Texas**

The Larson Electronics MGS-6X480-45KVA-4X208.50A-20X120.20A power distribution substation converts 480 AC three phase electrical current into single phase 208Y/120V AC. This unit provides operators the ability to safely tap into and distribute 480V AC power from a variety of sources including generators and direct grid power.

**\*PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS\***

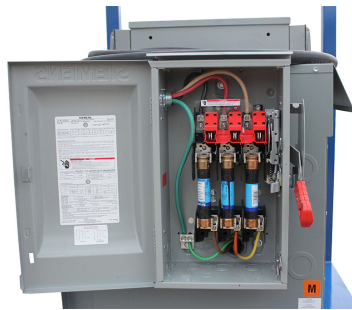
**Portable Power Distribution Purpose and Use**

The MGS-6X480-45KVA-4X208.50A-20X120.20A portable power distribution system gives operators the ability to power their 480 volt, 208Y and 120 volt equipment from a single system. On the primary side, operators connect 480 volt via a customer provided cord. Operators connect 480V equipment to six 460RS2W 480V receptacles. On the secondary side, operators connect to four 2-Pole twist-lock receptacles for their 208Y equipment and twenty quad GFCI receptacles for 120V equipment.

**Operation:** A customer provided cord brings 480V three phase power to the NEMA 3R 200-amp, 480V three phase main panel, which contains seven 60-amp breakers protecting six 460RS2W receptacles and passes 480V three phase through to the transformer. The NEMA 3R 45 KVA transformer converts 480V three phase power to 208Y/120V three phase and passes the current to the secondary panel. The secondary side of the transformer feeds a NEMA 3R 125-amp 208Y/120V three phase main secondary panel. This secondary panel contains four 50-amp, 208Y breaker protecting four 50-amp, 2-pole twist-lock receptacles and twenty 20-amp, 120V breakers protecting twenty 120V, 20-amp quad GFCI receptacles. All receptacles are equipped with weatherproof covers.



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**Protective Construction:** Unlike many portable power distribution boxes made of plastic and utilizing thin gauge, low grade metals in their construction, this unit is designed for serious use and is ruggedly constructed to withstand demanding conditions and heavy duty industrial applications. The transformer and load assembly is mounted on a 3/16" thick carbon steel mounting platform and the load center/distribution assembly is mounted to the standard 2" x 2" x 1/8" square carbon steel tubing frame, resulting in an extremely stable, durable and well protected power distribution platform. This model is equipped with forklift skid pockets, locking casters, and a top located lifting eyelet which allows easy lifting with cable or chain hooks. This can be replaced for an additional cost with stainless steel, hot dip galvanized steel, or aluminum depending on the customer's needs. Larger units are available upon request and can be equipped with skids or trailer mounted.

**Certification:** Larson Electronics is a UL 1640 panel shop and certified to build portable power distribution systems. All units are built in accordance to NFPA 70 (National Electric Code) and certified to UL 1640. All equipment is NEMA 3R rated for indoor and outdoor use and provide a degree of protection against dirt, water, and ice. NEMA 4 and NEMA 4X equipment can be equipped upon request.

**Grounding:** Transformer is grounded to the frame and we provide a grounding lug on the frame for the earth ground.

~Please check all motor loads for dual rated motors that will work 208 or 240.~

**Applications:** This power distribution system is ideal for indoor or outdoor use and applications including but not limited to, construction sites, plant maintenance, plant turnarounds, shows, exhibits, and shipyard operations. These power distribution systems are popularly used in applications where external power sources are often necessary. We also offer class rated transformers for use within explosion proof and hazardous location environments.

**Custom Built Systems Available:** Larson Electronics is a manufacturer and we can build portable power distribution systems to your specifications. Although we carry several models of portable power distribution systems in stock, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.

**Specifications / Additional Information****MGS-6X480-45KVA-4X208.50A-20X120.20A Power Transformer****Line-In Cord:** Customer Provided Cord**Line-In Cord Cap:** Customer Provided Cord**Primary Voltage:** 480V 3-Phase**Primary Disconnect:** -**Primary Panel:** 480V 200A Main N3R**Primary Breakers:** (7) 60A [480V]**Primary Receptacles:** (6) 460RS2W**Primary Protection:** Weatherproof Covers**Transformer:** 45KVA 480V 3-Phase to 208Y/120V 3-Phase N3R**Secondary Voltage:** 208Y/120V 3-Phase**Secondary Panel:** 208Y/120V 125A Main N3R**Secondary Breakers:** (4) 50A [208Y], (20) 20A [120V]**Secondary Receptacles:** (4) 2-Pole Twist-Lock [208Y], (20) quad GFCI [120V]**Secondary Protection:** GFCI (quad), Weatherproof Covers**Form Factor:** Square tube frame, skid pockets, top pick eye & locking 8" locking casters**Frame Materials:** Powder coated steel frame**Dimensions:** 34" X 44" X 58"**Weight:** 600 pounds

Larson Electronics manufacture a wide variety of custom power distribution systems. The pictures displayed for this unit are a general representation of form factor and may not accurately represent this exact configuration in every detail due to being custom builds. The specifics for this configuration are listed in the specification table and one-line diagram.

**Max OCP Primary:** 200A @ 480V**Max OCP Secondary:** 125A @ 208Y

UL 1640 Portable Power-Distribution Equipment

NEMA 3R Indoor / Outdoor Use

Made in the USA

**Special Orders- Requirements**

Contact us for special requirements

**Toll Free:** 1-800-369-6671**Intl:** 1-903-498-3363**E-mail:** sales@larsonelectronics.com

\*All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250\*

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This product does not qualify for free shipping.

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